

ABSTRACT

[0067] This invention provides *botulinum* antitoxin compositions and methods of production, and methods of treating animals and humans prophylactically and also those suspected of having contacted botulism toxin. The *botulinum* antitoxin is prepared by inoculating an animal with a monovalent botulinum toxoid and toxin. The animal's plasma is collected and purified at a high pH by affinity chromatography. The resulting monovalent immunoglobulins are de-specified by digestion with pepsin. Monovalent antitoxins for all seven *botulinum* serotypes are then combined to produce a high titered heptavalent *botulinum* antitoxin composition.